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[Abstract only]

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### Abstract

This design deals with an electric toothbrush that reduces friction and noise, and the electric toothbrush, wherein a kinetic force of a drive part that is driven by a rotating force of a motor is transferred through an insertion shaft to enable operation of a brush part and subsequently cleans teeth, has the following characteristics: an eccentric cam is interlocked depending upon forward or reverse rotation of the said motor, a cam interlocking part interlocks with said eccentric cam and then rotates before its rotating angle is fixed by a support part; and said cam interlocking part forms a rectangular groove into which said eccentric cam is inserted so that movement orbits of said brush part vary with the rotation angle by which said cam interlocking part is fixed. The electric toothbrush by this design effectively cleans teeth, removes plaques, and massages gum areas because its brush part provides various movement including brushing the tooth surface, brushing the gap between the teeth, brush the gap between a tooth and gum, and gum massaging, and effectively reduces noise because it performs stable movement.

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